
Suggested Measures Still Under Evaluation

Mobile Source

Agricultural

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Agricultural diesel engine electrification	Create lower electricity rates in order to encourage conversion to electrical agricultural irrigation pumps.	SMAQMD

Aircraft

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Aircraft vapor recovery (2001 SIP process)	Require Phase II (aircraft fueling) vapor recovery for av gas and jet fuel	Member of Public

Combustion - Off Road

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Ban or restrict use of recreational vehicles	This control measure would ban the use of recreational vehicles (not boats) from operating on spare the air days.	SMAQMD
Limiting pleasure craft/vehicle use above 100F	This control measure would prohibit the use of recreational boats on Sacramento area waterways when temperatures exceed 100 degrees F.	SMAQMD
Limiting pleasure craft/vehicles use	This control measure bans the use of all pleasure craft and off-road recreational vehicles on Spare the Air days.	SMAQMD
Portable Engine and Generator Emissions Reduction	Sacramento Control Measure SN-91 suggests strengthening the statewide Portable Equipment Registration Program administered by CARB to reduce NOx emissions from portable engines.	SMAQMD
Restrict use of portable engines	This control measure would prohibit the use of portable engines on Spare the Air days.	SMAQMD

Fuels

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Fuel cells or Solar cells		SMAQMD

Locomotives

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Fleet Upgrade in Locomotives	The District would encourage faster turnover of locomotive engines to lower emitting engines under new US Tier 0 standards.	SMAQMD
Fuel Changes - Locomotives	Encourage the use of alternative diesel fuels and diesel fuel formulations for diesel locomotives.	SMAQMD
Reduced Idling in Locomotive	Locomotives would be shut-off while at idle within the District.	Kenneth Hayes
	Locomotives would be shut-off while at idle within the District.	SMAQMD
Retrofits- NOx Control Technologies - Locomotives		SMAQMD

Marine

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Pursue Approaches to Clean Up the Existing Harbor Craft Fleet – Cleaner Engines and Fuels		SCAQMD
		SMAQMD
Reduce marine vessel emissions	This control measure would mandate or incentivize cleaner engines and/or cleaner fuels in the existing harbor craft and ocean going fleets.	SMAQMD
Retrofits-Incentives for newer boats and engines		SMAQMD
Suggested Strategies for Marine Vessels	The BAAQMD should go on record as supporting tougher marine vessel emission regulations than those originally proposed by EPA.	SMAQMD
Tug/Push Boat Activity Reductions		SMAQMD

Water Transit Engine Modifications, Alternative Fuels and Propulsion Systems

This measure proposed internal and external diesel engine modifications, alternative fuels and alternative propulsion systems for ferry boats operating on the Bay.

San Francisco Bay Area Water Transit Authority

Off Road

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Blue Skies Series engines 25 hp or Greater	Encourages the use of engines that participate in EPA's voluntary "Blue Sky Series" engine program. The "Blue Skies Series" label is available for new >25 hp engines with HC+NOx and PM emissions 40 percent lower than the current mandatory standard.	SMAQMD
Clean Up Existing Off-Road Gas Equipment Through Retrofit Controls (Spark-Ignition Engines 25 hp and Greater)		SCAQMD
Construction Ban on Spare the Air Days	This control measure would prohibit operation of all off-road construction equipment on Spare the Air days.	SMAQMD
Electric Burden and Personnel Carriers/Turf Trucks		California Electric Transportation Coalition
Electric Floor Care Sweepers, Scrubbers and Varnishers		California Electric Transportation Coalition
Electric new forklift purchases and forklift rentals		California Electric Transportation Coalition
		SMAQMD
Electric Tow Tractors		California Electric Transportation Coalition
Eliminate idling from construction and mining equipment	Restrict idling by off-road vehicles. Implementation may require the use of idling reduction devices in addition to voluntary idling reduction.	SMAQMD
Fleet Rules for Construction Equipment	Limits the vintage of the off-road equipment used in construction projects in the region.	SMAQMD
Further Emission Reductions from In-Use Off-Road Vehicles and Equipment (VOC, NOx, PM10)	SCAQMD Control Measure FSS-06	SCAQMD
Implement Registration and Inspection Program for Existing Heavy-Duty Off-Road Equipment to Detect Excess Emissions (Compression Ignition Engines)		SCAQMD

Incentives for clean (construction) vehicle use		SMAQMD
Incentives to shift non construction offroad emissions to low ozone season		SMAQMD
Increase registration fee on recreational vehicles		SMAQMD
Limit Heavy Duty Construction Equipment Operation to 6 AM to 10 AM	This control measure would limit the use of construction equipment rated over 50 hp to 4 hours per day from 6 AM to 10 AM.	SMAQMD
Low emission diesel fuels	Requires the year-round use of low emission diesel fuels for diesel off-road vehicles and equipment.	SMAQMD
Mowing restrictions	This control measure would ban the use of lawn and garden equipment on spare the air days. Fines would be imposed on violators.	SMAQMD
Off-road Applications where On-road Engines Are or Can Be Used		SMAQMD
Prohibit 2-stroke off-road engines	This control measure would require all existing off-road 2-stroke engines to be retired by Dec 31, 2004 and replaced by MY2005 and newer equipment	SMAQMD
Pursue Approaches to Clean Up the Existing Heavy-Duty Off-Road Equipment Fleet (Compression Ignition Engines) – Retrofit Controls		SCAQMD
Pursue approaches to reduce emissions from Airport Ground Service Equipment and Ground Access Vehicle.		SCAQMD
Raise fuel prices	This control measure would raise the price of diesel and gasoline fuel by 0.50 \$/gallon during the ozone season.	SMAQMD
Reduce Emissions from Airport Ground Support Equipment and Ground Access Vehicles		SMAQMD
Require Zero Emission Forklifts Where Feasible – Lift Capacity <8,000 pounds		SMAQMD
		SCAQMD
Set Lower Emission Standards for New Off-Road Gas Engines (Spark Ignited Engines 25 hp and Greater)		SCAQMD
Set lower emissions standards for new handheld and non-handheld lawn and garden equipment		SCAQMD
Stop SFO Runway to Eliminate Construction Emissions	Stop construction of SFO runway in the Bay to eliminate dust and diesel emissions	Kenneth Hayes

from trucks hauling fill material.

Truck Stop Electrification (NOx)

SCAQMD Control Measure MSC-05 would reduce truck engine idling by providing hook-ups for air, heating and cooling and electric power to run truck systems and trailer refrigeration.

SCAQMD

On Road

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Allow District to Opt in to Test-only Program	Allow district to opt in to test-only element of Enhanced Smog Check program.	SMAQMD
Automobile Maintenance Organization	Participating light and medium-duty cars and trucks would be provided maintenance that would ensure emission benefits above and beyond the current Smog Check program.	SMAQMD
Capture and Control Vapors from Gasoline Cargo Tankers		SMAQMD
		SCAQMD
Catalytic converter replacement program	Implement a program to replace the catalyst in light duty vehicles and truck including (SUVs) in order to reduce NOx and HC emissions. Implementation could include providing incentives.	SMAQMD
Clean Fleet Requirements	Require light-duty, medium-duty, and heavy-duty public fleets to meet a combination of fleet average emissions reduction and purchasing requirements that would lead to lower NOx and other pollutant emissions.	MTC Minority Advisory Council
	Require light-duty, medium-duty, and heavy-duty public fleets to meet a combination of fleet average emissions reduction and purchasing requirements that would lead to lower NOx and other pollutant emissions.	SMAQMD
Clean Fuels for Fleets (SJVUAPCD)		SJVUAPCD
Clean Vehicles/Engines/Fuels	BAAQMD programs to promote low emission vehicles, engines and fuels in light duty, heavy duty and other vehicles	BAAQMD
Cleaner vehicle incentives	Ideas like free tolls, "green" parking spots for natural gas and other alternatively fueled vehicles	PG&E
CMAQ Funding	This control measure would require that CMAQ funding provide air quality improvements at levels similar to incentive programs now operating in the Air District.	SMAQMD
Dual Fuel Retrofit Technology	Retrofit heavy duty vehicles in the inventory, that currently utilize diesel fuel, with dual fuel (LNG and diesel) engines.	SMAQMD

Education program on how to properly maintain older vehicles	Suggestion that there be an education program regarding detrimental effects of older vehicles and how to reduce emissions from older vehicles	NUMMI
Electric Transportation Refrigeration Units		California Electric Transportation Coalition
Emission Fee Program for Port-Related Mobile Sources (All)	South Coast Control Measure FSS-07 proposes fees for mobile sources associated with port operations, such as ships, trains, trucks and off-road equipment. The fees would be used for projects to mitigate the emissions from these sources.	SCAQMD
Emission reduction credits (2001 SIP process)	Eliminate emission reduction credits	Member of Public
Encourage cleaner fuels	CNG infrastructure	PG&E
Encourage use of synthetic motor oil	Use of synthetic motor oil increases overall fuel efficiency	PG&E
End the motorcycle Smog Check exemption	Under this measure, motorcycles are subject to emissions inspections similar to autos but it is likely that the test cycles are different.	SMAQMD
Establish clean air labeling, energy conservation and public education programs		SMAQMD
Fleet Modernization for Heavy-Duty Diesel Vehicles	Fleet modernization by accelerating the turnover of older higher emitting engines to cleaner late model vehicles and engines.	SMAQMD
Fleet rules (2001 SIP process)	Low emission vehicle mandates for public fleets, buses, refuse trucks, airport services	CBE
Free Gas Caps		SMAQMD
Green Contracting Ordinance	A requirement for contractors (including garbage disposal) to procure and to operate low-emission vehicles, and to obtain low-emission fleet status for their off-road equipment and heavy-duty on-road fleets.	SMAQMD
Heavy-Duty Diesel Engine Repowers		SMAQMD
Heavy-duty Diesel Vehicle Retrofits	Retrofit heavy-duty diesel vehicles using one of three ARB-verified emission control systems.	SMAQMD
Heavy-Duty Engine ECM Recalibration	Heavy Duty Vehicles in the inventory that are MY1994-1998 can be reflashed to the lowest MY2005 emission standards.	SMAQMD
Heavy-Duty Gasoline Catalyst Replacement		SMAQMD
Heavy-Duty Gasoline Catalyst Retrofits		SMAQMD
Implement registration and inspection program		SMAQMD

Increased Marketing of Hybrid Vehicles	Encourage automobile manufacturers to increase the marketing of light-duty hybrid vehicles.	Kenneth Hayes
Increased Smoking Vehicle Enforcement		SMAQMD
Limit use of diesel motors at ports	Citing Port of Los Angeles limiting use of diesel motors and providing plug-in electrical power	Frank Gallo
Local Heavy-Duty Diesel Inspection	Augment truck and bus highway inspections with community-based Inspections.	SMAQMD
Longer Term Engine Retrofit or Aftertreatment for Diesel Engines Greater than 25 hp		SMAQMD
Modernize Older Engines		SMAQMD
Near Term Engine Retrofit or Aftertreatment		SMAQMD
Neighborhood Electric Vehicles		SMAQMD
New Low-Emission Heavy Duty Vehicles		SMAQMD
Pilot credit generation (2001 SIP process)	Electric ship hotelling generates NOx credits	Member of Public
Preconditioning of diesel engines		SMAQMD
Public Agency Fleets (SJVUAPCD)		SJVUAPCD
Pursue Approaches to Clean Up the Existing Truck/Bus Fleet		MTC Minority Advisory Council
		SCAQMD
Pursue Approaches to Reduce Land-Based Emissions at Ports – Alternative Fuels, Cleaner Engines, Retrofit Controls, Electrification, Education Programs, Operational Controls		SMAQMD
		SCAQMD
Replace or Upgrade Emission Control Systems on Existing Passenger Vehicles – Pilot Program.		SCAQMD
		SMAQMD
Retrofit controls and 3-way catalyst for spark ignition engines	Mandate or incentivize the retrofit of large spark-ignited offroad equipment (> 25 HP)	SMAQMD

Set Additives Standards for Diesel Fuel to Control Engine Deposits		SCAQMD
Set Low-Sulfur Standards for Diesel Fuel for Trucks/Buses, Off-Road Equipment, and Stationary Engines		SCAQMD
Smog check (2001 SIP process)	Subsidize Smog repairs for low income drivers	CBE
Smog Check Improvements		SCAQMD
Smoking Vehicle Photo Radar		SMAQMD
Station Car & Low Emission Vehicle Share Program		SMAQMD
Suggested Strategies for the Port of Oakland	The Port of Oakland should move past pilot and demonstration projects and (1) reduce idling of heavy duty vehicles, (2) reduce NOx and PM emissions from ground support equipment, (3) reduce NOx and PM emissions from trucks, and (4) grid power for ships	SMAQMD
Transfer Smog Check operations to a government agency		SMAQMD
Truck Idling Rule and Devices	Restrict idling by all light- and heavy-duty vehicles. Implementation may require the use of idling reduction devices.	SMAQMD
Truck Stop Electrification		California Electric Transportation Coalition
Vehicle Fleets Serving Intermodal Facilities		SMAQMD
Zero Emissions from Stopped Vehicles	Work with the ARB to mandate that all vehicles' engines (cars, trucks, buses) turn off when vehicle temporarily stops, such as in congested traffic, at red lights, etc.	Member of Public

Other

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Mitigation Fee Program for Federal Sources (All)	SCAQMD Control Measure FSS-05 suggests charging fees to sources that are uncontrolled (or not sufficiently controlled) and pre-empted from state or local control by the federal government, such as emissions from locomotive engines, ships and airplanes.	SCAQMD

Portable Engines

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Incentivize the replacement of construction equipment engines		SMAQMD
Provide Incentives for Microturbine Engines in Small Power Generation Applications		SMAQMD
Replace standard gasoline powered mowers with electric ones		SMAQMD
		California Electric Transportation Coalition
Set Lower Emission Standards for New Handheld Small Engines and Equipment (Spark Ignited Engines Under 25 hp such as Weed Trimmers, Leaf Blowers, and Chainsaws)		SCAQMD
		Member of Public
Set Lower Emission Standards for New Non-Handheld Small Engines and Equipment (Spark Ignited Engines Under 25 hp Such As Lawnmowers)		Member of Public
		SCAQMD
Small IC engines (2001 SIP process)	Control NOx from small IC engines (Sacramento rule)	CBE

Other

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Legislative changes to allow for SIP credits	Include measures that require new legislative authority or pursue legislative changes that allow for future SIP credits.	TRANSDEF

Area

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Urban Heat Island Mitigation Measures	Reduce temperatures in urban areas through tree planting (trees with low VOC emissions) and promotion of building and paving materials with higher reflectivity.	SCAQMD

Stationary Source

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
2000 CAP G3 - Seasonal Limitations on Organic Liquid Storage Tank and Wastewater Separator Cleaning and Refinery Shutdowns		CBE
Agricultural Irrigation Engines (SJVUAPCD)		SJVUAPCD
Air Stripping (Soil Decontamination) (SJVUAPCD)		SJVUAPCD
Aircraft Fuel Transfer into Storage Tanks (SJVUAPCD)		SJVUAPCD
Asphalt Batch Plant Dryers/Heaters (SJVUAPCD)		SJVUAPCD
BAAQMD Rule 8-24 Pharmaceutical and Cosmetic Manufacturing	Sacramento suggests that reactors, distillation columns, crystallizers, and centrifuges be required to meet 85% control system efficiency and 90% control efficiency as required by Sacramento Rule 464.	SMAQMD
BAAQMD Rule 8-51 Plasting Welding Adhesive	Sacramento suggests that the Bay Area should lower its VOC limit for plastic welding adhesive from 500 g/l to 450 g/l and its VOC limit for specialty contact adhesive from 400 g/l to 250 g/l to parallel those in Sacramento Rule 460.	SMAQMD
Bakery Ovens (SJVUAPCD)		SJVUAPCD
Boilers, Steam Generators and Process Heaters (SJVUAPCD)		SJVUAPCD
Boilers, Steam Generators, Process Heaters/Space Heaters	Sacramento Control Measure D-16 suggests further NOx reductions from boilers, steam generators and process heaters.	SMAQMD
Can and Coil Coatings (SJVUAPCD)		SJVUAPCD

Chamber Fumigation of Agricultural Products (SJVUAPCD)		SJVUAPCD
Commercial and Industrial Composting (SJVUAPCD)		SJVUAPCD
Commercial Charbroilers (SJVUAPCD)		SJVUAPCD
Cutback Asphalt Application (SJVUAPCD)		SJVUAPCD
Dryers & Dehydrators (SJVUAPCD)		SJVUAPCD
Electric power generating boilers (2001 SIP process)	1. More stringent NOx controls 2. Require SCONox technology	CBE
Federally Mandated Ozone Nonattainment Fee (SJVUAPCD)		SJVUAPCD
Flares (SJVUAPCD)		SJVUAPCD
Fluid Catalytic Cracking Units (SJVUAPCD)		SJVUAPCD
Furnaces (SJVUAPCD)		SJVUAPCD
Gasoline Transfer (SJVUAPCD)		SJVUAPCD
Glass Coating Operations (SJVUAPCD)		SJVUAPCD
Glass Melting Furnaces (SJVUAPCD)		SJVUAPCD
Indirect Source Mitigation Fee (SJVUAPCD)		SJVUAPCD
Lime Kilns (SJVUAPCD)		SJVUAPCD
Livestock Waste (SJVUAPCD)		SJVUAPCD
Magnet Wire Coating Operations (SJVUAPCD)		SJVUAPCD
Offset Trigger Levels	Sacramento suggests that the BAAQMD should lower offset trigger levels from 50 TPY to 15 TPY and require an offset ratio of 1.3:1 for offsets not at the site.	SMAQMD
Oil and Gas Fugitives (SJVUAPCD)		SJVUAPCD
Ports		SMAQMD
Pressure Relief Valves		CBE

Refinery boilers and heaters (2001 SIP process)	More stringent NOx controls	CBE
Restaurant emissions (2001 SIP process)	Control emissions from charbroiling (SCAQMD rule)	CBE
Stationary Gas Turbines (SJVUAPCD)		SJVUAPCD
Stationary Gas TurbinesDuct Burners (SJVUAPCD)		SJVUAPCD
Stationary IC Engines (SJVUAPCD)		SJVUAPCD
Water Heaters & Boilers, 75,000 Btu/hr - 2 MMBtu/hr (SJVUAPCD)		SJVUAPCD

Agricultural Other

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Efficient Agricultural Practices	Sacramento Control Measure OFMS14. This control measure suggests an outreach campaign to encourage farms to reduce water use, reduced organic pesticide use, and lower diesel emissions from agricultural engines.	SMAQMD
Emission Reductions from Livestock Waste (VOC/NH3)	SCAQMD Control Measure WST-01 would reduce emissions from (primarily) dairies by moving them out of the South Coast air basin, moving manure out of the air basin or controlling emissions from anaerobic digestion of wastes.	SCAQMD
Livestock Waste	Sacramento Control Measure SN-52 suggests control of the VOC component of the decomposition of livestock waste by exporting agricultural operations, exporting waste, or capturing emissions from anaerobic digestion of waste.	SMAQMD

Agricultural Pesticide

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Implement Existing Pesticide Strategy		SCAQMD
		SMAQMD

Combustion - Off Road

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Portable Engines w/ARB (SJVUAPCD)		SJVUAPCD

Combustion - Stationary

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Agricultural Irrigation Engines	Sacramento Control Measure SN-48. This measure would reduce NOx emissions from diesel engines used to run irrigation pumps.	SMAQMD
Boilers	Sacramento Control Measure SN-111 suggests further reduction of NOx emissions of boilers of greater than 75,000 btu/hr.	SMAQMD
Boilers, Steam Generators & Process Heaters, 2MMBtu/hr – 5 MMBtu/hr (SJVUAPCD)		SJVUAPCD
Cogeneration	Sacramento Control Measure D17. This measure would require NOx controls for engines and turbines used in cogeneration.	SMAQMD
Electric Utilities	Sacramento Control Measure D19. (See D14)	SMAQMD
Heaters	Sacramento Control Measure SN-111 suggests further control of NOx emissions from water heaters of greater than 75,000 btu/hr.	SMAQMD
IC Engine non-ag	Sacramento Control Measure D20. This measure would impose RACT/BARCT NOx limits for IC engines.	SMAQMD
Residential Water Heaters (SJVUAPCD)		SJVUAPCD
Restaurant Operations (SJVUAPCD)		SJVUAPCD
Small boilers (2001 SIP process)	Control NOx from smaller boilers (Sacramento rule)	CBE
Solid Fuel-Fired Boilers, Steam Generators & Process Heaters (SJVUAPCD)		SJVUAPCD

Organic Solvent Usage

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
2000 CAP F8 - Limitations of Solvents Based on Relative Reactivity	Further Study Measure F8 in the 2000 Clean Air Plan suggests that rules that control emissions of volatile organic compounds (VOC) could be more effective by considering the relative reactivity of organic compounds rather than the mass.	CBE
Adhesives and Sealants	Sacramento Measure D-3. Most air districts in California have adhesive VOC limits based on ARB's 1998 RACT/BARCT determination. This measure would reduce	SMAQMD

	limits in adhesive categories for which South Coast AQMD Rule 1168 limits are more stringent.	
Auto Refinishing	Sacramento Control Measure D-11 proposes adoption of some lower VOC limits in South Coast Rule 1151, and elimination of two coating categories to be replaced by lower VOC requirements for the individual coatings that make up those categories.	SMAQMD
Further Emission Reductions from Architectural Coatings and Cleanup Solvents	SCAQMD Control Measure CTS-07 suggests further control of VOC limits and clean up solvents subject to South Coast Rule 1113: Architectural Coatings.	SCAQMD
Miscellaneous Industrial Coatings & Solvent Operations (VOC)	SCAQMD Control Measure CTS-10 suggests reduction of VOC emissions from industrial and commercial coating operations.	SCAQMD
Paper Fabric & Film Coating Operations (SJVUAPCD)		SJVUAPCD
Pleasure Craft Coating	Adopt VOC limits for surface coating of pleasure craft consistent with limits in South Coast, Ventura and San Diego	BAAQMD
Screen Printing (SJVUAPCD)		SJVUAPCD
Solvent cleaning (2001 SIP process)	Require low VOC (aqueous) solvents	CBE
Wood Products Coating	Sacramento Control Measure SN-56 suggests reduction in allowable VOC content for specified categories of wood product coating operations including stains, sealers, and strippers. Also recommended is a reduction in the exemption level.	SMAQMD

Other

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Promotion of Catalyst-Surface Coating Technology Programs (All Pollutants)	SCAQMD Control Measure MSC-03 suggests coating of surfaces that contact large amounts of ambient air with catalysts that would convert ozone or CO into harmless gases.	SCAQMD

Other Industrial/Commercial Processes

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Control of chemical manufacturing (VOC and NOx)	Sacramento Rule 464 and Rule 455 control emissions of chemical and pharmaceutical manufacturing. Proposed Sacramento control measure D-23 recommends basin wide adoption of the strictest standards and adoption of NOx limits.	SMAQMD

Other Industrial/Commerical Processes

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Breweries	Sacramento Control Measure SN-53B suggests controlling ethanol emissions from breweries by 25% using water scrubbers or carbon adsorbtion.	SMAQMD
Cooking-Commercial	Sacramento Control Measure SN-50 suggests control of VOC emissions from chain driven and under-fire commercial broilers.	SMAQMD
Emission Reductions from Composting (VOC/NH3)	SCAQMD Control Measure WST-02. This measure would require controls on co-composting and green waste composting.	SCAQMD
Emission Reductions from Restaurant Operations (VOC, PM10)	SCAQMD Control Measure PRC-03 suggests control of under-fire charbroilers in addition to the existing controls on chain driven charbroilers.	SCAQMD
Landfills & Other Waste Disposal/Treatment	Sacramento Control Measure SN-81 suggests that all counties in the Sacramento air basin control landfill emissions to as stringent a level as does Sacramento.	CBE
	Sacramento Control Measure SN-81 suggests that all counties in the Sacramento air basin control landfill emissions to as stringent a level as does Sacramento.	SMAQMD
Mandatory Facility Reduction on Spare Air Days	Sacramento Control Measure SN-113 suggests reducing facility production so as to reduce air emissions by 20% on Spare the Air days.	SMAQMD
Mandatory Reduction from Stationary Sources on High Ozone Days	Sacramento Control Measure SN-113. This measure would require large facilities to reduce emissions on days when high ozone levels are expected.	SMAQMD
Oil and Gas Fugitive Emissions	Sacramento Control Measure SN-57 also suggests control of fugtive emissions from natural gas wells, collection and distribution systems through housekeeping rules, such as dictating frequency of inspection and repair requirements.	SMAQMD
Permit Exemptions	Sacramento Control Measure SN-108 suggests lowering thresholds for permitting to require more sources obtain permits. Also, the control measure suggests adding inspections, permit conditions and revising existing permit conditions.	SMAQMD
Petroleum Production	Sacramento Control Measure SN-57 suggests control of fugtive emissions from oil wells, collection and distribution systems through housekeeping rules, such as dictating frequency of inspection and repair requirements.	SMAQMD
Polymeric Foam Product Manufacturing (SJVUAPCD)		SJVUAPCD
Sewer Gas Controls		Jack Ohringer
Steam Drive Oil Production Wells (SJVUAPCD)		SJVUAPCD

Sumps, Pits & Wastewater Processing Equipment (SJVUAPCD)		SJVUAPCD
Wineries	Sacramento Control Measure SN-53A suggests control of the emissions from fermentation processes in wineries.	SMAQMD
Wineries (SJVUAPCD)		SJVUAPCD

Petroleum Distribution and Marketing

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Fuel Handling	Sacramento Control Measure D27. This measure would provide incentives for the surrender of gasoline containers used to fuel lawnmowers and other lawn and garden equipment.	SMAQMD
Gasoline bulk terminals and plants	Require backpressure monitors and controls to shut down loading when backpressure exceeds a set standard, set more stringent leak standards, increase enforceability, and lower emission standard.	BAAQMD
Increase Recovery of Fuel Vapors from Aboveground Storage Tanks		SCAQMD
		SMAQMD
Organic Liquid Loading/Transfer (SJVUAPCD)		SJVUAPCD
Organic Liquid Storage Tanks (2001 SIP process)	Further Study Measure FS 10 suggests improved tank seals and fittings, lower vapor pressure exemptions, improved tank design, vapor recovery for tanks, and control of emissions from tank degassing and cleaning.	CBE
Recover Fuel Vapors from Gasoline Dispensing at Marinas		SCAQMD
		SMAQMD
Reduce Fuel Permeation Through Gasoline Dispenser Hoses		SCAQMD
		SMAQMD
Storage & Transfer of Gasoline @ Terminals & Bulk Plants (SJVUAPCD)		SJVUAPCD

Petroleum Refining

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Cooling water from coke cutting operations	High pressure water used to remove coke from coking drums is not sent through the refinery wastewater collection and control system. Any VOC's in the water may be emitted.	BAAQMD
Emission Reductions from Fugitive Emission Sources (VOC)	SCAQMD Control Measure FUG-05. This measure would further reduce emissions from fugitive sources through potential controls that could include enhanced inspection and maintenance, leakless valves, vapor recovery, and degassing controls.	SCAQMD
Emissions from Cooling Towers	Emissions from cooling towers may be able to be controlled by minimization of leaks of organic liquids into cooling water.	BAAQMD
Refineries	Sacramento suggests	SMAQMD
Refinery Blowdown Systems		CBE
VOC Fugitives from Petroleum Refineries and Chemical Plants (SJVUAPCD)		SJVUAPCD

Transportation

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Arterial Management	Revise CAP TCM 12 to emphasize arterial management strategies that improve safety and convenience for transit, bicyclists and pedestrians.	BAAQMD
Bicycle Access and Facilities (DB)	Implement projects and programs to improve bicycle access	BAAQMD
Bicycle Access and Facilities (SB)	Provide dedicated bike car on BART trains during peak periods	BAAQMD
Bus Rapid Transit	Provide bus rapid transit in heavily traveled corridors	BAAQMD
Carsharing	Expand carsharing programs	BAAQMD
Ferries	Implement elements of Water Transit Authority proposal, including clean vessels and most cost effective routes	BAAQMD

Financial Incentives	Provide financial incentives to encourage transit use, low emission vehicles, carsharing	BAAQMD
HOV Facilities	Implement MTC's revised HOV Master Plan	BAAQMD
Location Efficient Mortgages	Promote location efficient mortgages to encourage home purchases near transit	BAAQMD
Parking Cash Out	Consider results of Alameda County CMA's parking cash out demonstration program	
Safe Routes to Transit/Regional Bicycle Plan	Implement Safe Routes to Transit component of MTC Regional Bicycle Plan	BAAQMD
Smart Growth	Implement Smart Growth Strategy/Regional Livability Footprint project	BAAQMD
Transit Use Incentives	Expand CAP TCM 13 - Transit Use Incentives to include more specific language about transit subsidies for employees	BAAQMD
Weekend Spare the Air	Citing increased ozone levels on weekends, it was suggested that certain activities that produce ozone precursors be changed to different days of the week or times of day to reduce ozone formation (weekend effect).	PG&E

Spare the Air

<i>Measure Name</i>	<i>Measure Description</i>	<i>Recommended By</i>
Spare the Air - Airports	Address airports and airport parking on STA days	BAAQMD Advisory Council
Spare the Air - Bicycles	Encourage cities and counties to establish special bikestreets/boulevards on STA days	BAAQMD Advisory Council
Spare the Air - Bridge Tolls	Increase bridge tolls during peak hours on STA days; also collect tolls on Bay Bridge on eastbound rather than westbound traffic	BAAQMD Advisory Council
Spare the Air - Diesel Trucks	Shift diesel truck traffic to weekends on STA weekdays	BAAQMD Advisory Council
Spare the Air - EBRPD	Review East Bay Regional Park District High Fire Day restrictions for possible inclusion in STA advisories	BAAQMD Advisory Council
Spare the Air - Expand Network	Expand STA network and evaluate effectiveness	BAAQMD Advisory Council
Spare the Air - Free Transit	Provide free transit service on STA days	BAAQMD Advisory Council

Spare the Air - HOV	Modify HOV lane requirements on STA days, including number of lanes on Bay Bridge, occupancy requirements, time limits, incentives for clean fuel vehicles	BAAQMD Advisory Council
Spare the Air - Parking	Implement parking surcharge on STA days at worksites and BART stations	BAAQMD Advisory Council
Spare the Air - Ridesharing	Increase rideshare incentives and flex time for commuters from Central Valley on STA days	BAAQMD Advisory Council
Spare the Air - ROG Emphasis	Emphasize ROG reductions in STA advisories, particularly at large worksites. Augment ROG monitoring to evaluate STA impact and possible SIP credit	BAAQMD Advisory Council
Spare the Air - Specific Measures	STA advisories should provide specific list of measures to be implemented	BAAQMD Advisory Council
Spare the Air - Speed Limits	Lower freeway speed limits to 55 mph and increase enforcement on STA days	BAAQMD Advisory Council
Spare the Air - Telecommuting	Promote telecommuting on STA days	BAAQMD Advisory Council